

TITLE: MAGNETIZED DEVICE FOR AN AUTOMOBILE FUELING SYSTEM

FIELD OF THE INVENTION

This invention relates to a magnetized device for an automobile fueling system,
5 and more particularly to a design to magnetize gasoline thoroughly for easy
burning purpose.

BACKGROUND OF THE INVENTION

Gasoline is one of the essential elements to operate the engine of an automobile.
The gasoline is generally composed of pentane. This product is easy to burn, but
10 it may cause burning not thoroughly and produces air pollution.

In view of this and many other shortcomings, the inventor has derived a
magnetized device to prolong the magnetization duration for a better burning.

SUMMARY OF THE INVENTION

It is the primary object of the present invention to provide a magnetized device
15 for an automobile fueling system, which exposes gasoline to a longer
magnetization for a better burning effect.

It is another object of the present invention to provide a magnetized device for
an automobile fueling system, which eliminates air pollution produced by
gasoline not burning thoroughly.

20 It is a further object of the present invention to provide a magnetized device for
an automobile fueling system, which is cost effectiveness.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an exploded view of a first embodiment of the present invention;

FIG. 2 is a side view with partial cross-sectioned;

FIG. 3 is a view showing the magnetic field of a permanent magnet and a
5 guiding bracket of the present invention;

FIG. 4 is an exploded view of a second embodiment of the present invention,
and

FIG. 5 is a side view of the second embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention comprises a sleeve 1, a pair of nozzles 2, a pair of semi-circular permanent magnets 3, and a pair of semi-circular guiding brackets 4, as shown in FIG. 1.

- 5 The sleeve 1 comprises inner threads at respective ends.

Each nozzle 2 has a hollow pipeline 21 axially extending from one end while the other end is a reduced neck 22 with threads thereon.

Each permanent magnet 3 is in a semi-circular piece and comprises a magnetic either positive or negative pole, while the other piece comprises an opposite pole.

- 10 Each of the guiding brackets 4 has a larger inner diameter with respect to the permanent magnet 3 and comprises two saw-shaped edges 41 at respective ends.

In assembly, the two permanent magnets 3 are placed together to form a round entity, as shown in FIG. 2. The two guiding brackets 4 are magnetized to wrap the round entity of the permanent magnets 3 outwardly. The saw-shaped edges

- 15 41 of the guiding brackets 4 are to form two small gaps at respective sides. The permanent magnets 3 and the guiding brackets 4 are placed into the sleeve 1. The gaps at respective sides of the guiding brackets 4 are to form two gasoline routes enclosed in the sleeve 1.

- 20 The two nozzles 2 are threaded with the sleeve 1 from respective sides of the sleeve 1. This holds the permanent magnets 3 and the guiding brackets 4 in the sleeve 1 securely with gasoline flowing through the gasoline routes formed by the guiding brackets 4. The permanent magnets 3 create a magnet field to disperse the gasoline article for burning purpose.

- Gasoline flows through the pipeline 21 of one nozzle 2 at one end of the sleeve
25 1 and into the gasoline routes formed by the guiding brackets 4, as shown in FIG. 3. Due to the curved design of the saw-shaped edges 41 of the guiding brackets 4,

the gasoline takes more time to travel out of the pipeline 21 of the other nozzle 2 and is magnetized more thoroughly. The gasoline is more flammable.

Furthermore, FIGS. 4 and 5 show another embodiment of the present invention. The two permanent magnets 3 have a center hole 31 to accommodate a guiding post 5 therein. The guiding post 5 comprises a pair of stoppers 51 at respective ends and a pair of grooves 52 corresponding to each other in position. Thus, the gasoline drained into the pipeline 21 of one nozzle 2 will go through both the gasoline routes formed by the guiding brackets 4 and the grooves 52 of the guiding post 51. This increases the ability to burn the gasoline thoroughly.